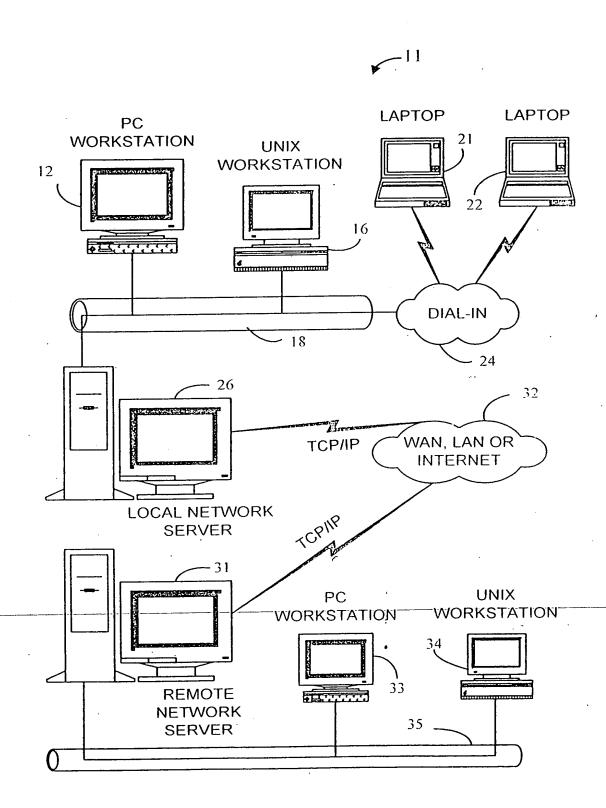
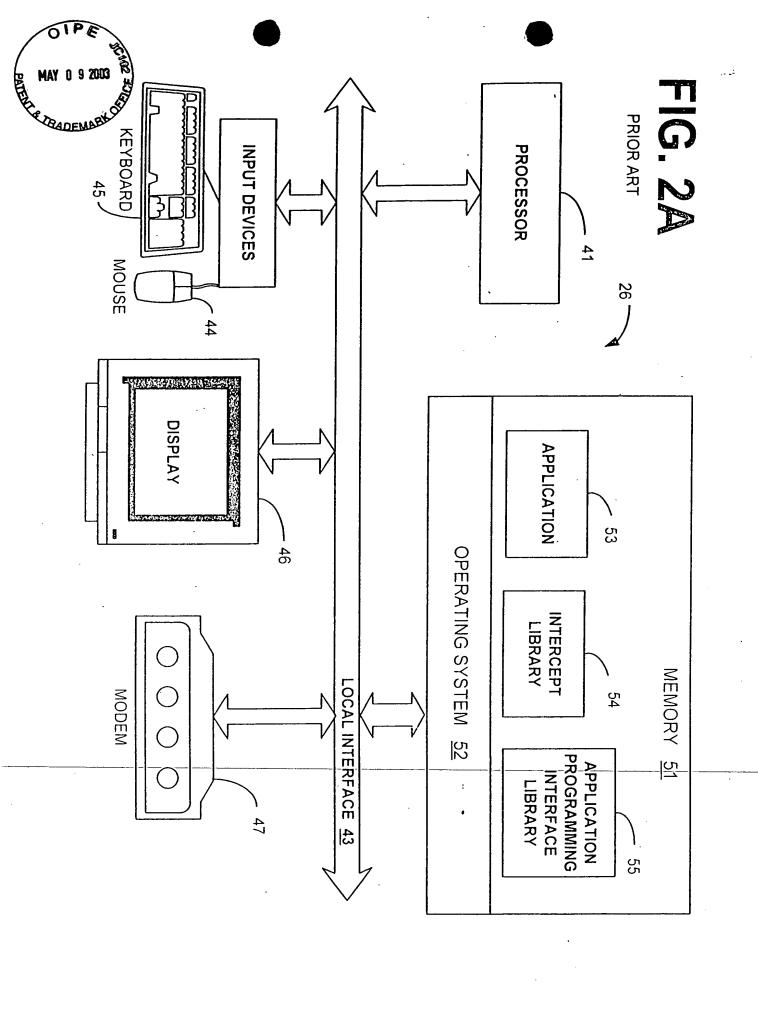
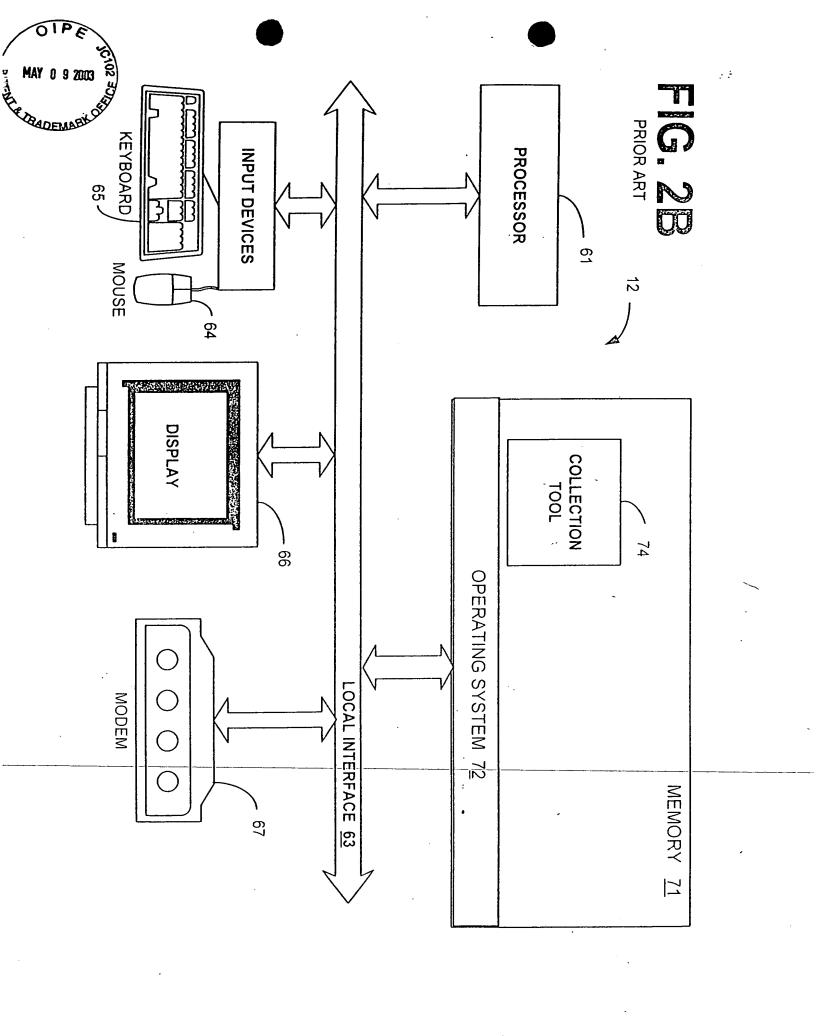
FIG. 1 MAY 0 9 2003 R. MAY 0 9









PRIOR ART

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USER INTERFACE LOGIC COLLECTION TOOL 74 PROCESS SERVICE REQUEST SEND REQUEST TO THE API RECEIVE REQUEST FOR **RETURN OUTPUT** API LIBRARY 55 INTERCEPT LIBRARY 54 LIBRARY PROGRAM SERVICE FROM APPLICATION LOOP EXIT REPEAT UNTIL DONE **APPLICATION PROGRAM 53** CALL API LIBRARY **EVENTS**

RECEIVE REQUEST EVENT FOR EVENT SERVICE

PROCESS REQUIRED EVENT RETURN THE REQUIRED EVENT

OUTPUT



PRIOR ART

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APPLICATION PROGRAMMING INTERFACE LIBRARY 55

RECEIVE REQUEST FOR SERVICE FROM APPLICATION PROGRAM
IF INTERCEPTION IS ENABLED, THEN
CALL INTERCEPT MODULE
ELSE
PROCESS REQUIRED EVENT
RETURN THE REQUIRED EVENT
RETURN TO RECEIVE NEXT REQUEST

LOOP

INTERCEPT MODULE 56

RECEIVE REQUEST FROM API
ESTABLISH COMMUNICATION WITH
APPROPRIATE INSTRUMENTATION
TOOL
SEND EVENT DATA TO THAT
INSTRUMENTATION TOOL
WAIT FOR REPLY
IF INSTRUMENTATION TOOL REQUESTS
NORMAL API REQUIRED EVENT BE RUN
PROCESS REQUIRED EVENT
RETURN TO RECEIVE NEXT REQUEST

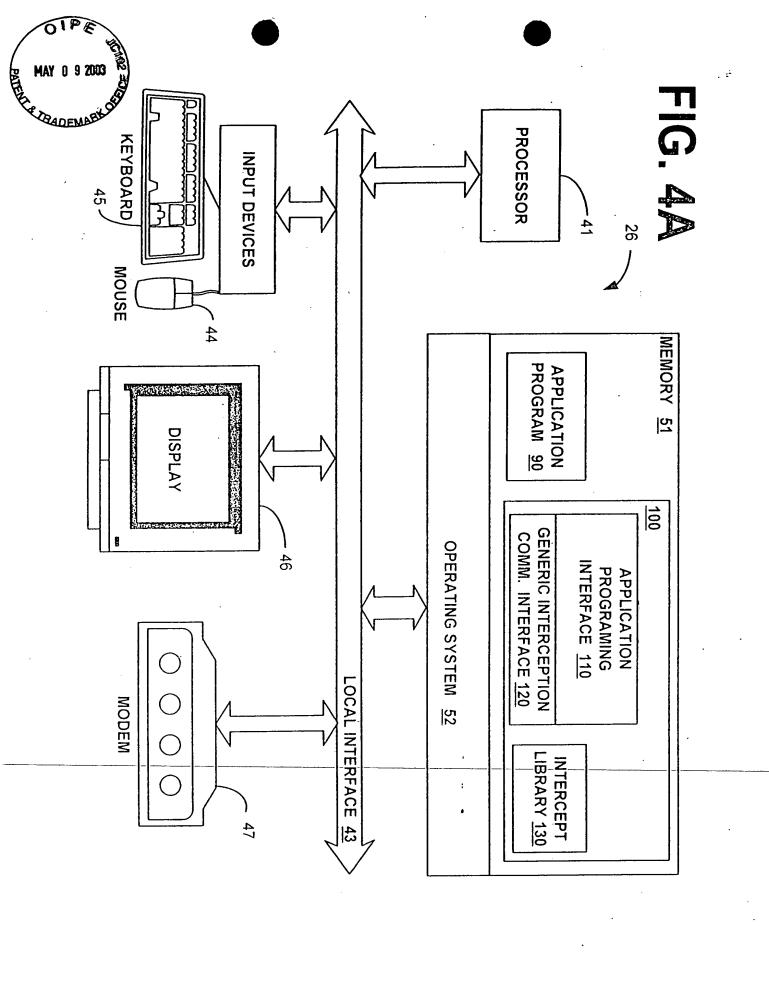
COLLECTION

SIMPLE DATA

COLLECTION TOOL 75

APPLICATION PROGRAM 53

REPEAT UNTIL DONE CAPTURE CLIENT EVENTS CALL API LIBRARY



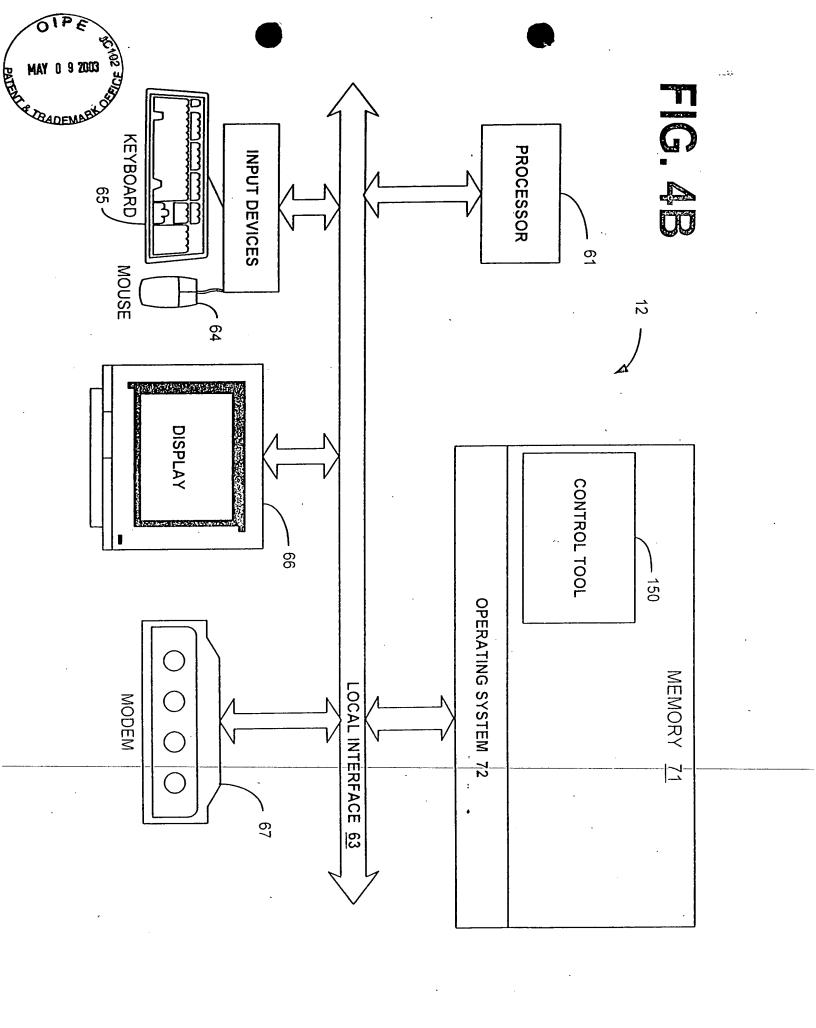




FIG. 4C

APPLICATION PROGRAM 90

REPEAT UNTIL DONE
CAPTURE CLIENT EVENTS
CALL API
LOOP

NTERCEPT LIBRARY 130

REGISTER EVENTS OF INTEREST AND EVENT RECEIVING HANDLERS ESTABLISH COMMUNICATION WITH CONTROL TOOLS

150

CONTROL

100LS

COLLECTION

SIMPLE DATA

WAIT TO RECEIVE EVENT FROM API
PERFORM EVENT DATA PROCESSING
IF REQUIRED TO PROCESS EVENT
PROCESS EVENT
RETURN SERVICE REQ. OUTPUT
RETURN REPLY TO API THAT
EVENT WAS HANDLED

ELSE

RETURN REPLY TO API THAT THE

EVENT WAS NOT HANDLED

RETURN TO WAIT TO RECEIVE NEXT

EVENT FROM API

API 110

SEARCH FOR INTERCEPT LIB.
IF INTERCEPT LIB. FOUND
SEND INITIALIZATION EVENT
WAIT FOR REPLY
INIT. INTERCEPT EVENT SEND HANDLERS
GENERIC INTERCEPTION COMM. INTER.

RECEIVE SERVICE REQ. FROM APP. PROG. IF INTERCEPTING

GENERATE EVENTS FOR SERVICE REQ.
SEND EVENTS TO INTERCEPT LIB. USING
SEND HANDLERS IN GENERIC
INTERCEPTION COMM. INTER.
WAIT FOR REPLY
IF INTERCEPT LIB. HANDLED ALL EVENTS
RETURN

ELSE SERVICE APP. PROG. REQUEST RETURN SERVICE REQ. OUTPUT TO APP PROG.

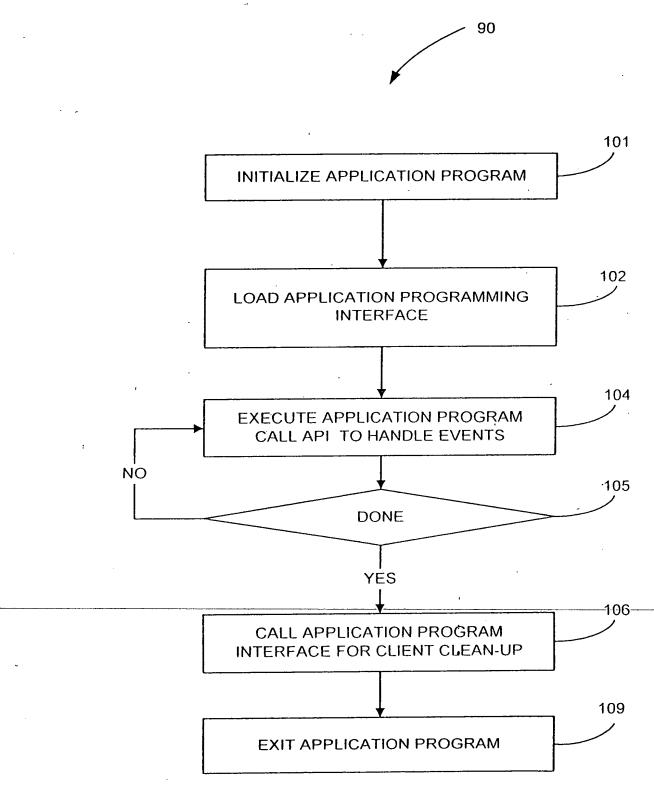
SERVICE APPL. PROG. REQUEST RETURN SERVICE REQ. OUTPUT TO APP.

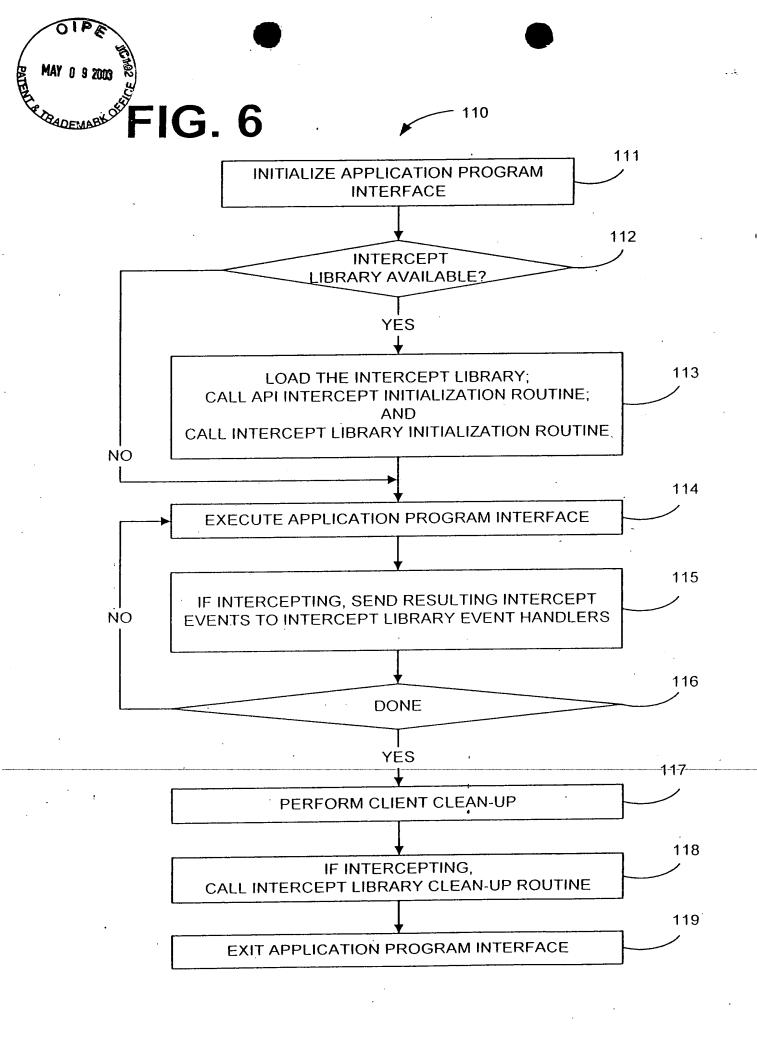
GENERIC INTERCEPTION COMM. INTER.
(SEND HANDLERS) 120

RECEIVE EVENT FROM API SEND EVENT TO REQUIRED INTERCEPTION LIB.

WAIT FOR REPLY FROM INTERCEPTION LIB. SEND TO API







EXIT INTERCEPT LIBRARY